

WHITE ENVIRONMENTAL ASSOCIATES
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Statement of Qualifications & Experience

August 1995 to Present **President/Principal, WHITE ENVIRONMENTAL ASSOCIATES, Brea, CA**
Provides businesses with the ability to effectively solve environmental regulatory and legislative problems, capitalize on opportunities of change, and meet environmental related challenges in a positive and cost-effective manner. Also provides expert insight on environmental laws, regulations, industry standards and recommended practices. *[See Professional Memberships and Activities]*

- Provide regulatory/legislative strategic planning, issues management and conflict resolution.
- Provide expert insight into policy matters regarding petroleum storage facilities and “clean burning fuels.”
- Troubleshoot on environmental matters involving difficult interpretive issues on behalf of clients.
- Develop/implement/audit EH&S program strategies leading to improved operational and facility compliance.
- Provide coalition leadership role in the development of positions/responses to critical environmental issues.

ARCO Products Company, Los Angeles, California
a division of Atlantic Richfield Company [ARCO]

From 1972 to 1995

1994 to July 31, 1995 **Director, Environmental Issues Management**
1987 to 1994 **Manager, Environmental Legislation and Regulation**

Develop and advocate company/industry positions on complex and technical, federal and state, environmental legislative and regulatory issues that may impact petroleum products operations/facilities, reporting to Vice President level. Computer intelligent as well as media response trained & experienced.

- Successful track record on majority of issues particularly those with potential major revenue, capital and expense impacts to ARCO in the range of \$100,000,000 capital and \$10,000,000 in annual expenses.
- Provided regulatory/legislative translation, counsel and recommended strategies to senior management.
- Developed and delivered focused and credible written/oral ARCO testimony on federal and state matters.
- Advised on the development and implementation of comprehensive environmental compliance programs.
- Established and managed ARCO's Methanol Fuel Program and participated in RFG concept development.
- Provided industry leadership role in the development of positions/responses to critical environmental issues.

1985 to 1987 **Manager, Environmental and Regulatory Affairs**
1981 to 1985 **Consultant, Environmental & Health Programs**

Developed, implemented, audited and maintained effective environmental compliance programs with necessary legal assistance and concurrence for major bulk product terminals and about 2,000 gasoline stations.

- Developed a comprehensive environmental compliance program with companion training.
- Performed operational and administrative audits providing status reports & implementing improvements.
- Developed & distributed complying Material Safety Data Sheets for ARCO branded products.
- Managed remediation projects aimed at optimizing resources within allocated reserves.
- Liaison with over 18 state and federal environmental agencies.
- Carried out limited technical lobbying of environmental regulatory matters at regional and state levels.

1978 to 1981 **Senior Financial & Operational Analyst, Marketing Distribution**

Performed financial and operational analyses on and recommended adjustments to product distribution operations aimed at maximizing operational performance while promoting efficiencies.

- Initiated capital and income producing projects aimed at maximum capital utilization and optimal performance.
- Prepared financial analysis and recommendations for improved facility operations.
- Conducted extensive facility orientation and operations training for management trainees.

1976 to 1978

Safety and Driver Training Representative

Developed and executed safety compliance and training programs, evaluated safety performance and developed programs to enhance and promote safety awareness for petroleum products operations.

- Maintained working knowledge of OSHA workplace and DOT “haz mat” transportation laws and regulations.
- Analyzed accident records for safety performance measurement.
- Developed operational programs and training to improve safety performance.
- Member, American Society of Safety Engineers (ASSE).

1975 to 1976

Administrator, Northeast Field Distribution Area, Providence, RI

Coordinated operational activities for 15 bulk product terminals and administered a budget of about \$10 million per year with subsequent monthly analysis of actual expense experience and operational performance.

- Maintained a weekly operations performance analysis to assure maximum operational productivity.
- Implemented performance improvement programs at individual facilities with various operational functions in the Northeast (pipeline, marine, asphalt, and liquid petroleum gas terminals).

1974 to 1975

Delivery Foreman, Kettle Point Terminal, Riverside, RI

Dispatched and supervised 21 proprietary drivers plus common carrier product delivery activities to assure an efficient and productive distribution operation.

1972 to 1974

ARCO Retail Sales Representative, Wilmington, DE and Cranston, RI

Responsible for promoting product sales plus the administration and maintenance of from 17 to 21 retail gasoline stations.

1968

Lab Technician, E. I. du Pont de Nemours Co Inc., Wilmington, DE

Conducted organic chemistry laboratory experiments and follow-up substance analysis for two research chemists pursuant to the discovery of new chemical products.

1966 to 1968

**Communications Specialist, U. S. Marine Corps,
Republic of Vietnam and Camp Lejeune, NC**

Served as a communications center supervisor at Division and Regimental levels.

1968 to 1972

University of Delaware, Newark, DE

Earned a Bachelor's Degree with a major in Geology and a heavy concentration in Business/Marketing

Professional Memberships and Activities

2002	Co-Author, API Publication 1645, "Stage II Vapor Recovery System Operations & System Installation Costs"
1998 – Current	Advisory Panel Member, Regional Environmental Business Resource & Assistance Center
1998 – Current	Member, Orange County CUPA Business Advisory Group
1996 – Current	COB & Director, Industrial Environmental Coalition of Orange County
1995	Recipient, American Petroleum Institute's "Certificate of Appreciation"
1994	Recipient, Western States Petroleum Association's "Achievement" Award
1993 – 1994	Report Editor, a California Governor's Regulatory Reform Task Force, "Environmental Program Streamlining Recommendations Regarding the Retail Gasoline Industry"
1992 – 1995	Chair, American Petroleum Institute, Marketing Environmental Subcommittee
1990 – 1995	Chair, Western States Petroleum Association, Environmental Marketing Subcommittee
1984 – 1995	Vice-Chair/Member, American Petroleum Institute, Storage Tank Task Force

JSW & WEA Projects/Issues Managed Include ...

Underground Storage Tanks (USTs) - Participated in the formation of the "The Regulation of Underground Storage Tank" (TRUST) Task Force at the American Petroleum Institute (API) and worked with the USEPA in the development of UST regulations including the submission of extensive written comments and oral testimony at the public hearings. Became the Vice-Chair of the Task Force just prior to its conversion to the Storage Tank Task Force (STTF) intended to cover above ground storage tanks (ASTs). Worked extensively on above ground tank matters in STTF until retirement from ARCO. Participated in development of several UST related API standards and recommended practices publications.

One of two primary functionaries for the Western States Petroleum Associations (WSPA) in the development of California UST regulations and the original CA Leaking Underground Fuel Tank (LUFT) Manual. Also participated in the development of AZ, NJ, NV, NY, OR & WA UST programs.

Above Ground Storage Tanks (ASTs) - One of the founding members of the API Storage Tank Task Force (STTF) and Vice-Chair for several years. Worked with the USEPA in the development of a reasonable strategy to strengthen regulatory programs controlling ASTs. Major involvement in Phase I & II of SPCC revisions and promulgation of OPA90 regulations. Worked in California and other Western States to advocate continued consistency with federal AST programs. Participated in development of several AST related API standards and recommended practices publications.

Reformulated Gasoline (RFG) and MTBE - A member of a management team at ARCO that developed the concept of reformulated gasoline utilizing MTBE as a key component (EC-1).

Consultant for Lyondell Chemical, a major manufacturer of MTBE, for five years working on many issues in CA, AZ & NV associated with MTBE in gasoline. Developed information, comments and delivered testimony regarding MTBE relative to its use, characteristics, relative hazards, storage/handling, compatibility, etc.

Oxygenated Gasoline (EtOH & MTBE) - Performed ARCO's Oxinol™ gasoline (a methanol and co-solvent blend) environmental assessment and facility preparation including the labeling of dispensers.

Participated in writing of API recommended practice publications (1626/1627) dealing with the compatibility & handling of oxygenates. Was a member of the API Task Force that initially investigated exposure levels of MTBE in gasoline.

Worked on ARCO's behalf to introduce gasoline oxygenated with EtOH & MTBE in Phoenix, Las Vegas and Reno. Worked at the legislative and rulemaking level to assure reasonable laws, worked with the agencies to assure effective, enforceable programs. Also worked with the agencies and the media to assure accurate information dissemination to the public and to gasoline marketers and delivery drivers.

Methanol Fuel (M85) Retailing - Established a new organization within ARCO to operate/manage the ARCO/CEC Methanol Fuel Program. Actively participated in the negotiation/development of a unique public/private agreement. Addressed many matters involving materials compatibility, equipment placement, health and safety issues, supply coordination, customer relations, media event planning, etc. Managed the program until retiring from ARCO.

Environmental Health & Safety Training - Developed and carried out EH&S training programs for petroleum product bulk terminal and transportation personnel. This included the publication of a Safety Manual, General Employee Safety and Service Station Safety booklets, Accident Control Techniques and Job Safety Analysis for useful analysis of accidents leading to future reduction/prevention.

Material Safety Data Sheet Development & Distribution - Served as a member and secretary of an ARCO MSDS Committee responsible for initiating or amending ARCO MSDS's including fuels, lubricants, solvents and other petroleum derived products. Also responsible for the distribution of MSDS Sheets.

Accident Investigation & Control Techniques - Developed a system for effective accident investigation and control for ARCO's petroleum products marketing facilities including bulk terminals and retail gasoline outlets.

Remediation Projects - Managed several investigative studies on behalf of ARCO involving suspected releases of petroleum products at bulk petroleum products terminaling facilities.

Stage I & II Air Pollution Controls at Retail Gasoline Outlets - Worked through the API and WSPA to assure reasonable reforms related to Stage I and Stage II vapor controls at retail gasoline outlets as well as those associated with on-board vehicle controls. Completed a paper on the costs of installing & maintaining vapor controls at retail gasoline outlets in 2000 for the API. Consulting for WSPA on CARB EVR implementation.

Motor Vehicle Inspection & Maintenance (I/M) - With the passage of the Clean Air Act Amendments of 1990 (CAAA90), there was a threat to ARCO's SMOGPROS™ franchise which is based on test-and-repair vehicle emission maintenance. The CAAA90 and the USEPA were more inclined toward test-only/repair-only I/M programs. This program also threatened stationary sources from the point-of-view that state emission credits would not be granted by the USEPA unless the state programs were consistent with USEPA regulations and guidelines.

On ARCO's behalf, worked within CA's legislature and administration to develop an enhanced I/M hybrid and opposed the USEPA's approach due to consumer related concerns, unsubstantiated assumptions, the lack of convincing evidence and good science.

New Source Review (NSR) at Retail Gasoline Outlets - Provided leadership to WSPA group in minimizing impacts of regional NSR on retail gasoline outlets. Successful in gaining certain exemptions for RGOs under NSR.

Air Toxics at Retail Gasoline Outlets - Lead an industry task force and facilitated a contractor's advocacy group to gain a realistic ruling on the treatment of retail gasoline outlets under CA's South Coast Air Quality Management District's (SCAQMD) new Source Review and Air Toxics regulations. Also streamlined permitting processes.

Also worked with an industry group under WSPA to mitigate the impact of similar action in the San Francisco-Bay Area. On ARCO's behalf, worked with the WA Department of Ecology on similar matters.

WHITE ENVIRONMENTAL ASSOCIATES

James S. White

AN INCOMPLETE LISTING OF TRAINING AND TRAINER ACTIVITIES.

Training -

- “Fundamentals of Cal/OSHA,” Greater Los Angeles Chapter, National Safety Council – Safety Training Institute, 1976
- “Fundamentals of Occupational Safety,” Greater Los Angeles Chapter, National Safety Council – Safety Training Institute, 1976
- “Hazardous Materials Regulations of the U.S. Department of Transportation,” HMAAC Red Diamond Training Program, Hazardous Materials Advisory Committee, 1976
- “First Aid Fire Training,” Ansul Fire Training School, 1977
- “Fuel Delivery Driver Training,” ARCO Management Driver Training, Tandem-Axle Semi-Tractor with 8,000 Gallon Tank Trailer, Steubenville, OH, 1974
- “Fuel Delivery Driver Training,” ARCO Management Driver Training, Bulk Tank Truck & Trailer, Wheeler Ridge, CA, 1976
- “ARCO Distribution Management Training Program,” 1976

Trainer -

- Fuel Delivery Driver Training, ARCO Management Driver Training, Bulk Tank Truck & Trailer, Wheeler Ridge, CA, 1978 - 79
- ARCO Driver Safety Tailgate Training Sessions
- ARCO Distribution Management Training Program
- ARCO Distribution Environmental Training Program

AN INCOMPLETE LISTING OF MORE RECENT PAPERS WRITTEN AND LECTURES/PRESENTATIONS DELIVERED.

Papers -

- “Marina Fuel Line Leak Detection Technology Assessment,” June 1998, ARCO Products Company for the SWRCB UST Advisory Panel, Team 4
- “A Scope Document for a Project to Devise a Reliability Tracking Program for Retail Gasoline Outlet Vapor Recovery Equipment,” June 1998, Western States Petroleum Association
- “The California Underground Tank Program and the Matter of Methyl Tertiary Butyl Ether,” February 1999, Lyondell Chemical Company
- “Methanol Fuel Transportation, Storage Distribution and Dispensing, Matters for Further Investigation & Consideration,” May 1999, for a major oil client.

- “In Search of an Iceberg: The Role of Underground Tanks,” Spring 2000, AEHS Soil Sediment & Groundwater, MTBE Special Issue
- “California Tank Program More Protective,” July 2001, Lyondell Chemical Company
- “So Why Are We Phasing Out MTBE?” August 2001, Lyondell Chemical Company
- “Stage II Vapor Recovery Installation and Operating Costs,” September 2002, American Petroleum Institute Publication 1645

Lectures/Presentations -

- “Above Ground Storage Tank Regulations,” September 1999, Industrial Environmental Coalition of Orange County, Costa Mesa, CA
- “Definition of the California UST/MTBE Problem,” May 2000, Mealey’s MTBE Conference, Marina del Rey, CA
- “SPCC Plans; Current and Future Requirements,” May 2000, Industrial Environmental Coalition of Orange County, Costa Mesa, CA
- “CA UST Enforcement and Compliance Problems,” October 2000, Mealey’s UST and Fuel Litigation Conference, Phoenix, AZ
- “Resolution of Some Key CA UST Problems,” March 2001, AEHS Contaminated Soils, Sediments and Water Conference, San Diego, CA
- “CA UST Status Update,” May 2001, LA Regional Water Quality Control Board, UST Working Group, Los Angeles, CA
- “California UST Status Update,” May 2001, Mealey’s MTBE Litigation Conference, Pasadena, CA
- “CA UST & MTBE Update,” January 2002, No CA ACS MTBE & Fuel Oxygenate Committee, San Jose, CA
- “Fuel Lifecycle Impacts: Manufacturing, Transport, Storage and Handling Infrastructure,” February 2002, Fuel Life Cycle Environmental Impacts Workshop, Pomona, CA
- “CA UST & MTBE Update,” February 2002, So CA ACS MTBE Ad Hoc Committee, Irvine, CA
- “Near Term Issues Confronting California’s Transportation Energy Supply,” April 12, 2002, West Coast Section, Air & Waste Management Association, Glendale, CA
- “MTBE & USTs: So What is Being Done?” June 2002, National Groundwater Association Conference on MTBE, Orange, CA
- “MTBE Update: What’s New?” June 2002, Independent Liquid Terminals Association, 22nd Annual International Operating Conference & Trade Show, Houston, TX
- “MTBE/USTs: A True Perspective,” November 5, 2002, Mealey’s MTBE & UST Litigation Conference, Marina del Rey, CA